

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: INVUE

Report Number: P180858

Luminaire Tested: **ICM-E01-LED-E1-SL4**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180858
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33680)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-E01-LED-E1-SL4
Description: ICON SITE MEDIUM LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2748 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

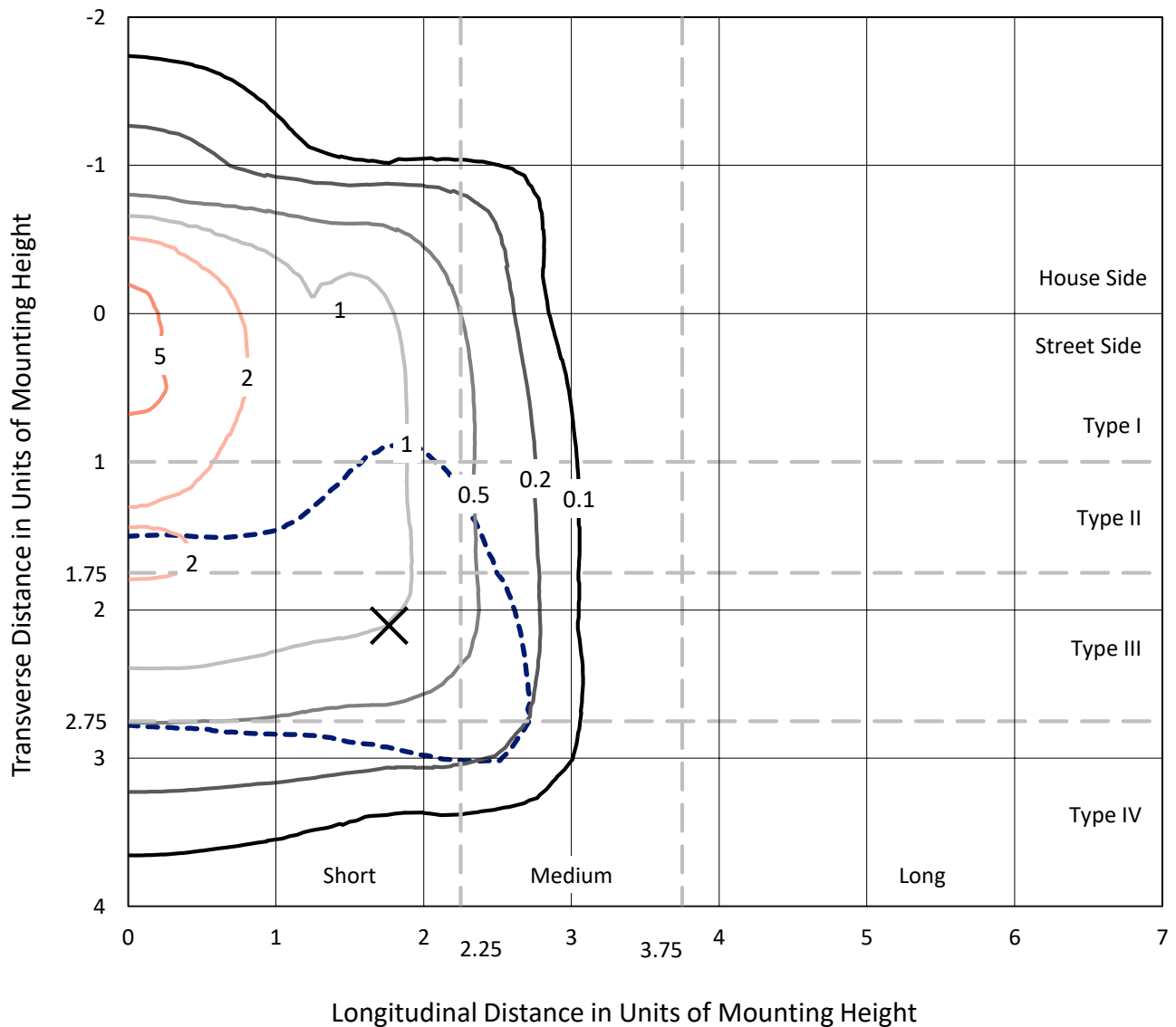
Input Watts (W): 24.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

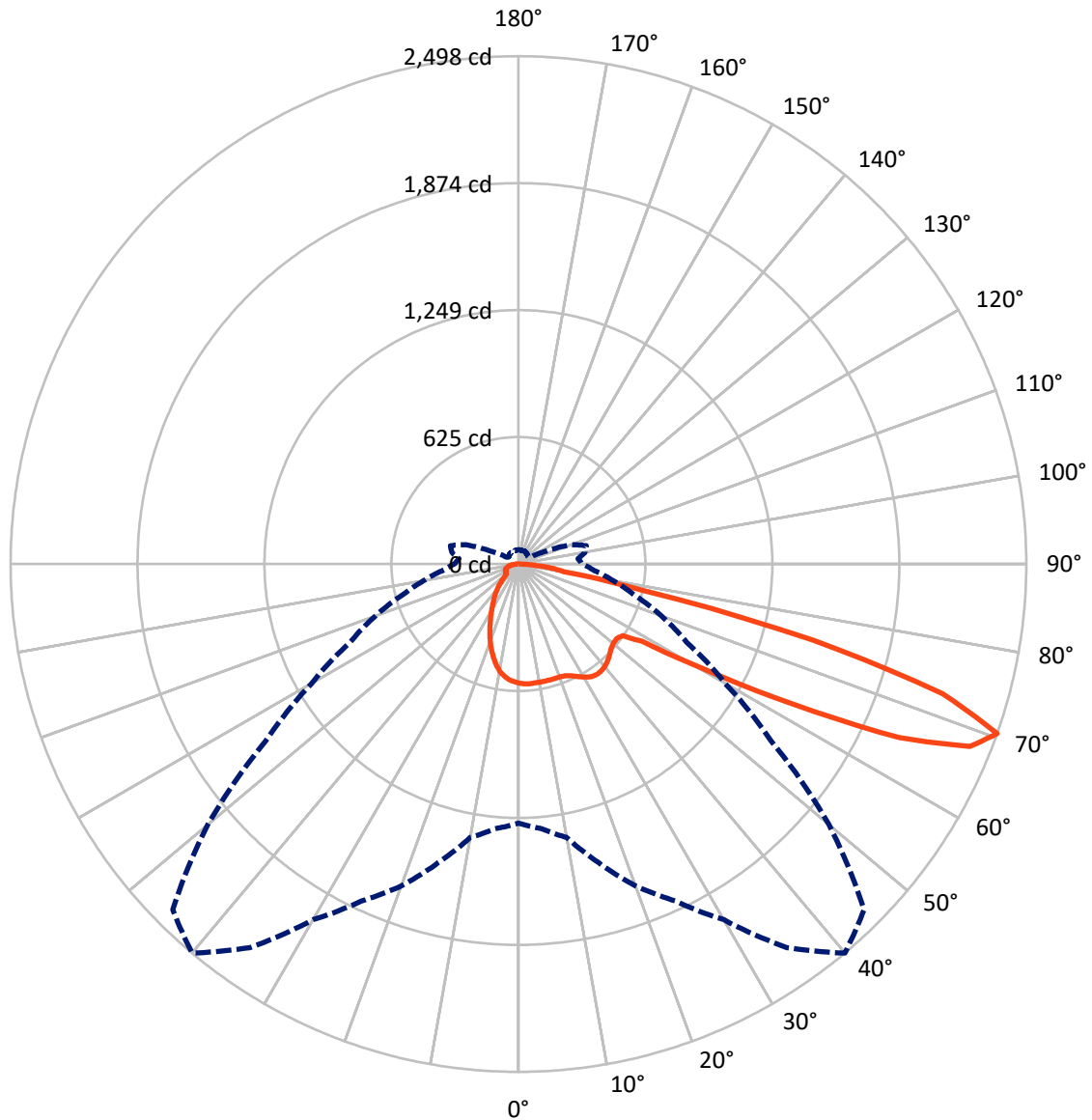
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	570.5	0.0	570.5
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	2177.6	0.0	2177.6
	% Fixture	79.2	0.0	79.2
Total	Lumens	2748.0	0.0	2748.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.8	2.0
10°-20°	150.0	5.5
20°-30°	222.0	8.1
30°-40°	280.5	10.2
40°-50°	317.3	11.5
50°-60°	451.5	16.4
60°-70°	840.9	30.6
70°-80°	385.4	14.0
80°-90°	45.7	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2748.0	100.0
0°-180°	2748.0	100.0

Coefficient of Utilization



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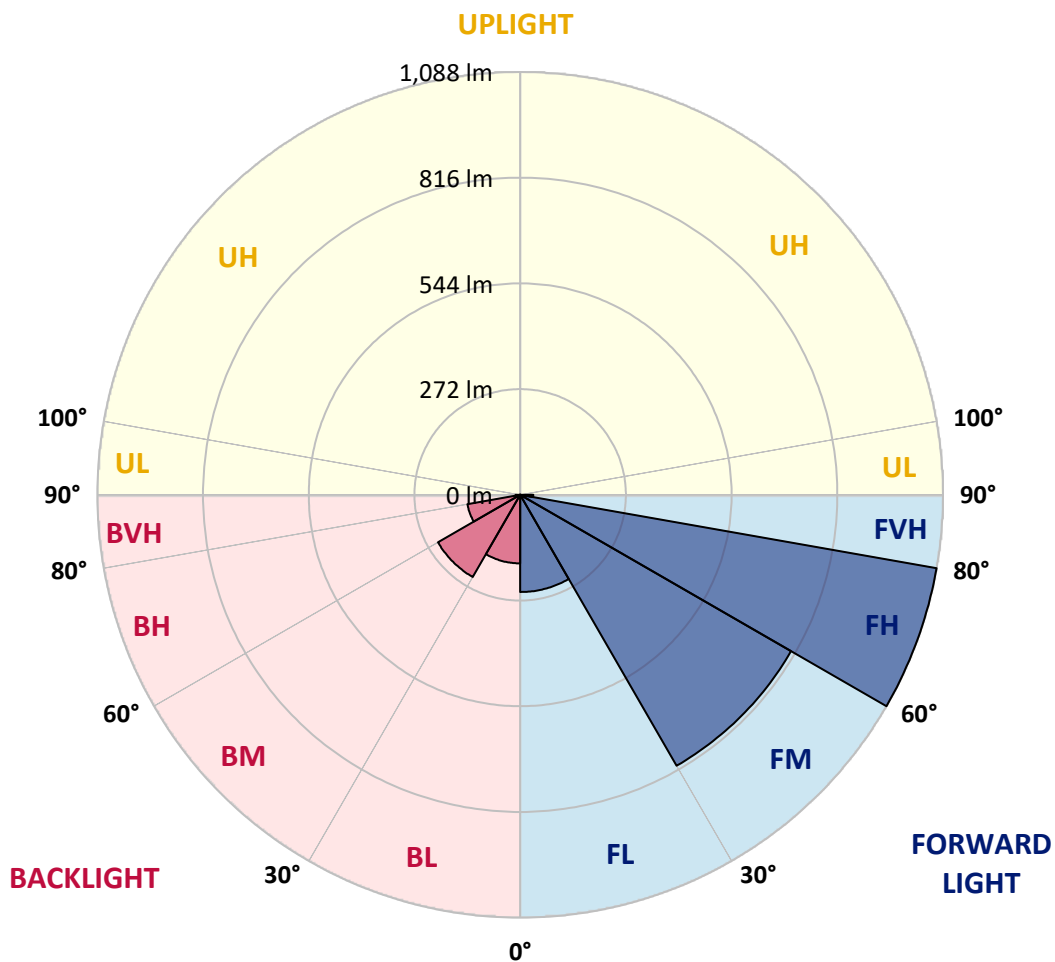
CATALOG NUMBER: ICM-E01-LED-E1-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	250.2	9.1			
FM (30°-60°)	805.1	29.3			
FH (60°-80°)	1088.3	39.6			G1/1800
FVH (80°-90°)	33.9	1.2			G1/100
BL (0°-30°)	176.5	6.4	B1/500		
BM (30°-60°)	244.2	8.9	B1/1000		
BH (60°-80°)	137.9	5.0	B1/500		G1/500
BVH (80°-90°)	11.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	586.3	586.3	586.3	586.3	586.3	586.3	586.3	586.3	586.3	586.3	586.3
2.5°	595.4	596.9	595.1	594.7	594.7	594.4	592.6	592.3	589.8	590.1	590.7
5°	599.7	600.3	599.1	598.8	598.1	596.9	595.4	593.5	591.6	589.8	588.2
7.5°	604.0	603.4	602.5	602.5	601.6	599.7	596.6	594.1	590.1	587.9	585.1
10°	610.2	609.3	608.1	607.4	605.9	603.1	598.8	595.4	590.4	586.1	581.4
12.5°	616.1	615.8	614.0	613.0	610.5	607.7	602.5	597.2	590.7	583.9	577.7
15°	626.7	625.4	623.5	621.7	617.7	614.0	605.9	599.7	590.4	581.4	571.8
17.5°	644.9	642.8	640.9	636.9	631.9	625.4	613.7	603.1	590.4	577.4	566.5
20°	678.4	673.8	671.4	666.1	657.4	645.6	627.3	610.2	591.4	574.6	560.0
22.5°	716.3	713.2	709.8	706.3	692.7	675.6	650.9	625.4	596.9	573.3	554.7
25°	758.8	754.7	752.8	747.0	734.2	714.7	680.9	645.6	609.6	578.3	554.7
27.5°	796.6	795.4	795.1	788.2	776.1	753.2	713.2	670.7	627.0	588.6	559.4
30°	831.0	829.8	829.1	825.4	811.4	784.2	740.7	693.0	645.9	602.8	568.1
32.5°	867.6	863.5	861.7	854.6	838.8	806.8	757.2	707.6	660.7	616.7	577.7
35°	897.4	894.0	890.2	880.0	857.7	819.8	764.4	712.6	666.7	624.5	582.6
37.5°	919.1	915.6	910.4	897.4	869.8	824.2	764.0	711.0	664.5	623.3	583.5
40°	928.7	925.3	919.7	903.3	871.9	821.7	758.1	703.9	658.0	616.7	579.8
42.5°	924.9	922.5	915.4	899.5	865.1	810.5	746.3	690.5	645.6	606.2	571.4
45°	910.7	908.8	902.1	885.3	849.6	792.6	729.0	673.8	630.7	593.2	560.3
47.5°	889.3	888.7	881.9	865.4	830.1	774.6	711.0	657.4	615.8	580.5	551.0
50°	865.8	862.6	859.3	844.0	811.8	759.1	698.0	647.2	607.4	575.8	547.0
52.5°	850.9	850.0	846.8	833.2	802.1	750.1	692.1	643.4	606.8	574.9	544.8
55°	983.0	985.1	956.6	897.4	845.3	774.9	709.8	662.3	622.1	589.8	567.7
57.5°	1454.0	1444.4	1395.4	1277.9	1145.1	970.0	843.7	767.2	717.2	722.8	734.0
60°	1694.0	1692.1	1683.1	1637.5	1549.1	1415.8	1267.9	1098.3	1044.4	1050.2	1054.6
62.5°	1801.2	1804.0	1810.9	1793.8	1770.5	1731.8	1658.0	1589.8	1517.5	1490.5	1418.3
65°	1850.9	1855.8	1871.4	1880.9	1890.0	1896.8	1925.9	2005.9	2058.6	1960.0	1730.5
67.5°	1748.2	1772.1	1823.3	1873.2	1917.9	1981.4	2080.0	2265.8	2395.1	2273.8	1941.1
70°	1274.4	1307.0	1365.6	1520.0	1684.9	1829.1	2020.2	2303.0	2498.0	2404.4	1993.2
72.5°	799.1	808.1	834.1	890.9	1013.3	1198.4	1532.4	1956.6	2181.7	2107.0	1684.7
75°	507.0	510.0	509.1	522.1	543.0	583.3	715.4	1155.6	1494.6	1378.0	938.9
77.5°	302.0	306.7	308.6	312.6	322.5	336.7	347.6	393.2	626.7	608.4	340.7
80°	253.0	256.7	253.7	252.7	246.5	242.1	247.4	242.1	224.8	216.5	199.4
82.5°	134.0	133.7	132.7	141.7	160.0	174.2	185.1	182.6	165.3	140.7	119.3
85°	73.5	76.0	76.0	79.1	76.3	76.6	79.1	83.4	77.2	64.5	52.7
87.5°	6.2	9.6	7.7	9.6	13.0	9.3	9.0	9.0	7.7	5.6	4.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	586.3	586.3	586.3	586.3	586.3	586.3	586.3	586.3	586.3	586.3	586.3
2.5°	589.1	588.6	587.3	586.3	586.3	584.8	583.9	583.3	583.0	581.7	581.7
5°	587.3	585.1	583.0	581.4	580.5	578.9	576.5	575.2	573.7	572.4	571.8
7.5°	583.3	579.3	575.8	573.3	570.2	567.7	564.7	561.9	559.1	557.9	557.2
10°	577.0	571.8	566.5	561.9	557.5	553.2	549.1	545.1	541.7	539.3	536.7
12.5°	571.2	563.1	556.3	549.5	542.6	537.4	531.8	525.9	520.9	516.3	515.1
15°	563.1	553.8	545.1	536.7	528.4	519.7	512.8	506.3	498.3	493.0	489.0
17.5°	555.6	544.5	534.0	524.0	513.8	504.8	494.6	485.9	477.9	469.8	463.9
20°	547.6	535.5	524.4	513.2	502.0	490.5	478.8	467.6	457.7	448.1	438.4
22.5°	540.5	528.1	517.2	505.1	492.7	479.7	466.0	452.1	440.7	428.2	417.0
25°	536.1	522.5	511.4	499.5	485.9	471.6	456.1	439.7	425.8	411.4	398.1
27.5°	536.1	518.4	507.0	495.2	481.2	466.0	449.0	431.0	415.2	399.4	383.0
30°	540.7	519.1	503.5	491.2	476.9	460.5	441.6	422.6	405.3	386.7	370.9
32.5°	545.1	520.3	501.1	485.3	468.8	452.7	433.5	413.3	394.1	376.5	359.7
35°	547.9	520.3	496.5	476.3	457.7	441.9	423.0	402.8	383.3	365.9	350.4
37.5°	548.2	517.9	489.0	466.0	446.5	430.0	412.1	393.2	374.6	358.4	345.4
40°	545.1	512.8	481.6	455.2	434.7	418.0	401.6	384.5	367.7	354.4	343.3
42.5°	539.5	507.6	474.4	446.5	425.1	407.7	392.6	378.0	363.4	351.9	342.6
45°	531.2	500.5	467.9	441.2	420.2	401.9	387.0	374.9	362.5	352.8	343.5
47.5°	523.7	498.0	470.0	444.7	422.6	403.7	388.6	378.3	368.7	362.1	349.5
50°	522.1	496.7	471.0	447.4	425.1	405.9	392.6	387.3	384.5	380.5	360.9
52.5°	517.9	496.5	477.9	464.8	450.5	441.6	427.6	432.6	429.5	415.2	379.8
55°	563.4	569.6	587.0	611.8	634.7	640.0	638.4	632.6	601.2	517.2	425.4
57.5°	774.6	809.6	842.5	857.0	855.2	838.8	827.0	803.1	757.9	655.5	515.4
60°	1067.9	1073.5	1056.1	1030.4	987.0	950.7	911.9	867.3	801.6	701.4	570.5
62.5°	1338.0	1263.0	1185.8	1113.2	1047.2	989.5	935.5	873.2	787.6	683.1	563.4
65°	1528.7	1370.0	1248.1	1143.9	1050.5	970.0	902.6	821.7	725.3	631.0	522.1
67.5°	1627.0	1383.5	1196.6	1051.4	919.1	807.4	717.9	639.1	567.4	526.2	457.0
70°	1517.2	1174.2	913.8	749.8	591.4	474.1	374.6	314.4	293.7	332.7	346.0
72.5°	1130.5	764.4	543.5	420.5	322.1	256.7	196.9	154.7	125.9	132.1	171.4
75°	534.6	330.0	233.2	177.4	141.1	116.9	95.5	87.4	73.2	60.7	57.0
77.5°	208.1	151.6	125.3	91.8	65.1	52.4	44.7	43.1	44.0	42.8	42.1
80°	158.4	107.3	67.3	49.3	42.5	37.5	33.2	31.9	32.6	34.1	35.6
82.5°	88.4	55.2	40.9	35.6	31.9	27.3	24.8	23.0	23.3	25.1	28.6
85°	34.1	26.7	24.5	23.5	22.0	17.7	15.2	15.5	17.7	21.1	21.1
87.5°	3.7	3.7	4.9	3.7	3.7	3.7	3.4	4.0	4.4	5.6	6.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	586.3	586.3	586.3	586.3	586.3	586.3	586.3	586.3	586.3	586.3	586.3
2.5°	581.1	581.1	581.1	580.5	580.7	579.5	579.5	578.6	580.2	579.3	578.9
5°	572.1	571.8	570.5	570.5	570.5	570.5	571.4	569.0	570.9	570.9	570.0
7.5°	556.9	556.9	553.5	555.4	554.7	555.6	556.9	555.6	557.5	558.8	557.9
10°	535.8	535.8	533.0	535.2	534.2	536.5	538.6	537.4	538.6	540.5	541.1
12.5°	512.6	511.4	508.8	509.8	509.8	511.0	511.9	513.5	515.1	517.5	518.8
15°	485.6	483.7	480.7	480.7	478.8	479.4	481.2	481.9	484.9	488.4	492.4
17.5°	458.0	453.3	450.0	445.9	442.8	445.3	447.4	449.0	451.4	456.7	459.5
20°	431.9	422.6	416.1	410.9	407.4	409.0	411.8	413.7	415.8	417.0	418.0
22.5°	406.2	395.6	386.7	380.2	374.6	376.1	374.9	374.0	375.5	371.4	371.2
25°	383.9	371.4	359.4	351.6	344.8	342.6	336.1	334.6	330.2	326.8	324.4
27.5°	367.7	351.6	338.3	329.3	318.4	310.4	302.0	293.7	289.0	283.4	280.7
30°	355.1	338.0	322.1	307.0	292.7	280.3	269.1	258.3	250.9	242.8	237.5
32.5°	343.3	327.4	308.2	287.4	268.2	254.2	239.7	227.3	215.5	204.9	197.2
35°	335.2	317.5	293.0	267.6	245.9	229.5	214.0	196.3	182.0	168.4	160.0
37.5°	330.9	309.1	279.1	250.9	226.7	208.1	188.8	168.4	151.0	138.3	125.6
40°	327.4	300.7	266.7	236.0	210.5	188.2	165.9	141.7	122.5	109.1	99.3
42.5°	323.7	291.4	255.8	224.2	196.0	170.0	143.0	117.2	98.9	89.6	85.3
45°	319.7	283.4	245.6	213.0	181.7	150.0	119.1	95.2	84.4	81.2	81.2
47.5°	318.8	278.1	238.1	202.1	165.6	127.2	97.0	82.1	79.1	79.7	80.9
50°	322.5	276.6	231.6	189.5	144.2	103.0	82.1	77.2	77.9	79.7	81.6
52.5°	331.4	277.9	224.8	171.8	118.8	84.9	76.0	75.6	77.5	80.3	82.1
55°	346.7	277.9	211.8	145.4	94.9	76.3	73.8	75.1	77.5	80.0	81.6
57.5°	379.3	275.1	188.8	116.3	79.3	73.2	73.2	74.7	76.9	79.3	80.7
60°	418.0	271.4	156.6	90.0	71.6	70.7	72.8	74.7	76.6	78.8	80.0
62.5°	420.5	261.7	124.0	74.4	67.6	69.1	72.6	75.1	75.6	77.2	78.8
65°	386.3	228.2	98.6	66.7	65.8	68.2	71.6	73.5	73.8	74.4	76.0
67.5°	338.3	186.0	79.7	63.0	63.9	66.7	68.6	70.0	71.0	72.6	72.8
70°	277.9	149.5	68.2	59.3	60.2	63.3	64.8	66.3	68.2	70.0	69.1
72.5°	196.9	116.3	59.8	55.2	56.5	59.3	61.1	62.3	63.9	65.8	64.5
75°	83.7	81.2	51.8	50.0	51.8	53.7	55.5	57.4	58.9	59.8	59.8
77.5°	42.8	47.7	44.7	44.7	45.9	47.7	49.3	51.2	52.1	53.0	54.2
80°	36.3	36.9	37.5	38.8	40.0	41.9	43.4	44.9	45.3	45.6	46.2
82.5°	30.0	31.3	31.9	33.8	34.7	35.3	36.3	36.3	36.9	36.9	36.0
85°	21.7	23.3	24.2	24.5	24.2	24.5	24.8	25.4	27.0	27.0	25.8
87.5°	6.2	5.9	7.4	7.7	8.4	9.6	10.9	13.0	13.7	14.2	14.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	586.3	586.3	586.3	586.3
2.5°	578.6	579.3	578.0	578.3
5°	570.0	571.2	569.6	571.4
7.5°	558.8	560.7	560.3	560.0
10°	542.6	545.1	545.1	546.0
12.5°	522.1	523.7	524.9	525.6
15°	494.6	497.4	498.9	498.9
17.5°	461.4	463.3	464.2	463.0
20°	419.3	418.6	418.9	415.8
22.5°	370.5	371.4	368.7	369.3
25°	322.8	321.2	322.5	320.7
27.5°	276.6	276.9	273.5	275.1
30°	232.6	231.0	226.7	228.8
32.5°	190.0	186.0	181.4	178.6
35°	150.0	143.9	141.7	140.7
37.5°	117.9	111.0	108.8	106.3
40°	93.7	91.2	90.2	90.9
42.5°	84.0	84.0	84.7	84.9
45°	81.6	82.5	83.4	83.7
47.5°	81.9	82.8	84.0	84.4
50°	82.5	83.4	84.4	84.7
52.5°	82.8	82.8	83.4	83.7
55°	82.1	81.9	82.1	82.5
57.5°	80.9	80.3	80.7	81.6
60°	80.3	79.3	80.0	80.7
62.5°	78.8	78.4	79.1	79.3
65°	75.3	75.6	76.6	76.6
67.5°	72.3	72.6	72.8	73.2
70°	68.6	68.8	69.5	69.8
72.5°	64.2	65.4	66.3	67.6
75°	60.7	62.0	63.9	65.1
77.5°	54.9	55.8	58.0	59.5
80°	46.5	46.2	46.5	47.4
82.5°	35.6	35.6	35.3	35.1
85°	25.1	24.8	23.9	23.9
87.5°	13.7	13.3	13.0	12.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)